



# GLAST Large Area Telescope: Performance & Safety Assurance

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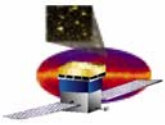
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## 4.1.A P&SA – December 2004

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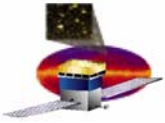
- **Significant accomplishments for January**
  - **Coordinated Technical Exchange Meeting with Glenair for PDU internal harness fabrication activities. Reviewed harness requirements, work orders and implemented specific LAT QA source inspection points.**
  - **ESD audits performed at SLAC (I&T Facility), Teledyne and General Technologies by LAT QA. Completed Audit Reports submitted to GSFC.**
  - **Secured services of on-site source inspector for PDU and GASU assembly activities at Aeroflex.**
  - **Performed capability survey's of two potential LAT harness assembly houses.**
  - **Captured all liens (three) against Tracker Tower A in SLAC LAT NCR system in order to track for closure.**
  - **Provided guidance to DAQ subsystem on cPCI connector installation qualification activities.**



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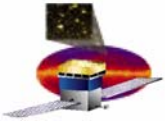
- **Significant accomplishments for January**
  - **Supported Calorimeter Module and Tracker Tower A receiving test activities. QA support included swing shift and weekend coverage.**
  - **Supported TEM/TEM-PS vibration test location change. Vibration facility (Wyle Laboratory) surveyed and qualified by LAT/GSFC QA. Test Readiness Review supported and work order approved. All vibration and thermal vacuum testing will be witnessed.**
  - **Maintained weekly on-site Quality Engineering presence at Parlex Corp. for flex cable fabrication activities. Pre-cap and final inspections are performed and previously submitted corrective actions are verified for adequacy. Weekly telecons are conducted with Parlex, SLAC and GSFC personnel.**



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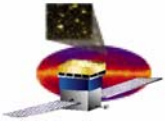
- **Significant accomplishments for January**
  - **LAT QA oversight was conducted on full-time basis at Glenair for PDU first article internal harnesses. LAT QA inspections were performed at required MIPs. Final inspection of first article harnesses being performed this week.**
  - **Software Quality Engineering integrated into I&T and FSW CCB Process.**
  - **Software Quality Engineering provided initial solutions to CM issues prevalent in I&T procedures. The solutions will be phased into each procedure as they are revised. Software environment/files/versions, test scripts expectations/versions, and test data archival path will be captured.**
  - **Completed successful run for the record testing of ISIS for delivery to Spectrum Astro.**



## 4.1.A P&SA – December 2004

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- **Significant accomplishments for January**
  - **Worked in concert with Tracker technical personnel to investigate pitch adaptor cracking issue. Activities included visits to Teledyne and Parlex and bending tests at SLAC.**
  - **Participated in Manufacturing Review for balance of TEM/TEM-PS to be assembled at General Technologies. NCRs, drawings and procedures were reviewed to ensure all open issues were addressed prior to production.**



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- **Planned accomplishments**
  - **Perform Quality Survey at Aeroflex (PDU & GASU assembly house) in Colorado Springs on January 26<sup>th</sup>**
  - **Support Technical Exchange Meeting at Aeroflex on January 27<sup>th</sup>. Full-time LAT QA will be on-site during assembly activities.**
  - **Continue efforts to coordinate closure of SLAC LAT Nonconformance Reports. Particular focus is on Tracker flex cables, MCM's and Tower A NCR's.**
  - **Support Technical Exchange Meeting at Cicon (LAT harness assembly house). LAT QA to maintain on-site presence during assembly activities.**
  - **LAT QA to support second shift I&T activities planned to start next week.**